



NSAI
Standards

Irish Standard
I.S. EN 6059-407:2019

Aerospace series - Electrical cables,
installation - Protection sleeves - Test
methods - Part 407: Mark adherence and
print permanence

I.S. EN 6059-407:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

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This document is based on:

EN 6059-407:2019

Published:

2019-06-26

*This document was published
under the authority of the NSAI
and comes into effect on:*

2019-07-26

ICS number:

49.060

NOTE: If blank see CEN/CENELEC cover page

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National Foreword

I.S. EN 6059-407:2019 is the adopted Irish version of the European Document EN 6059-407:2019, Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 407: Mark adherence and print permanence

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 6059-407

June 2019

ICS 49.060

English Version

**Aerospace series - Electrical cables, installation -
Protection sleeves - Test methods - Part 407: Mark
adherence and print permanence**

Série aérospatiale - Câbles électriques, installation -
Gaines de protection - Méthodes d'essais - Partie 407 :
Adhérence de marquage et permanence de
l'impression

Luft- und Raumfahrt - Elektrische Leitungen,
Installation - Schutzschläuche - Prüfverfahren - Teil
407: Haftfestigkeit und Haltbarkeit der Kennzeichnung

This European Standard was approved by CEN on 15 July 2018.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 6059-407:2019) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

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EN 6059-407:2019 (E)**1 Scope**

This document specifies the method and means for testing the mark adherence and print permanence characteristics of sleeves used to identify electrical cable and cable bundles for aerospace applications.

This test method evaluates the performance of printed samples produced by a specific supplier recommended print system. The print system will include: product, printer, printer ribbon and printer settings as applicable.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Preparation of samples

The tube size for testing is 6 mm to 7 mm as supplied internal diameter; (however, this method can also be used for other tube sizes as required – the mark performance shall be as specified in the relevant product standard for the tested product size).

The samples shall be printed as specified by the supplier using the recommended ribbon and printer system.

For thermal transfer and Dot Matrix print systems use one line of text printed in the middle of the test sample using 10 pt Arial – bold font to achieve a minimum contrast of C8 as shown in Annex A.

For laser marked samples use Roman S 3,8 mm.

If testing samples in the recovered state the products shall undergo full unrestricted recovery at the times and temperatures specified in the product standard.

Unrecovered samples shall be tested flat.

All samples shall be tested in the unsupported state unless otherwise specified in the product standard.

5 Apparatus

The apparatus shall be designed such that the rubbing member (eraser or cloth) can be securely attached to a moving arm that can be loaded with a specified weight.

The weighted arm with the rubbing member shall move as shown in Figure 1.

The speed of rub shall be approximately 1 (one) cycle every 2 (two) seconds.

The rubbing member shall be adjusted so that the rubbing face is parallel to the test piece.

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